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⑪ Publication number:

0 587 120 A3

12

## EUROPEAN PATENT APPLICATION

(21) Application number: 93114342.4

⑤1 Int. Cl. 5: **B60L 11/18**, B60L 15/20,  
H02K 7/116, H02K 16/00

② Date of filing: 07.09.93

③〇 Priority: 11.09.92 JP 269369/92

(43) Date of publication of application:  
**16.03.94 Bulletin 94/11**

⑧4 Designated Contracting States:  
**CH DE FR GB IT LI NL SE**

⑧ Date of deferred publication of the search report:  
**13.07.94 Bulletin 94/28**

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## 54 Driving system for an electric vehicle.

57 A driving system for an electric vehicle which drives wheels (81, 82) thereof with the aid of an AC motor (110) via an inverter (4) while a battery (1) is used as a power source is constructed such that the primary side and the secondary side of the AC motor are rotatably supported in a motor frame (141). One of the primary and the secondary sides of the AC motor is operatively connected to a power transmission shaft (811, 821) for one of a left-hand wheel (82) and a right-hand wheel (81) via a reversible type speed reducing mechanism while the direction of rotation of the power transmission shaft is reversed relative to that of the one of the primary and secondary sides. The other one of the primary and the secondary sides of the AC motor (110) is operatively connected to a power transmission shaft for the other one of the wheels via a non-reversible type speed reducing mechanism while the direction of rotation of the power transmission shaft is kept unchanged relative to that of the other one of the primary and secondary sides. Electricity from the battery (1) is fed to the coil (112) on the primary side of the AC motor via the inverter and a slip ring (151).

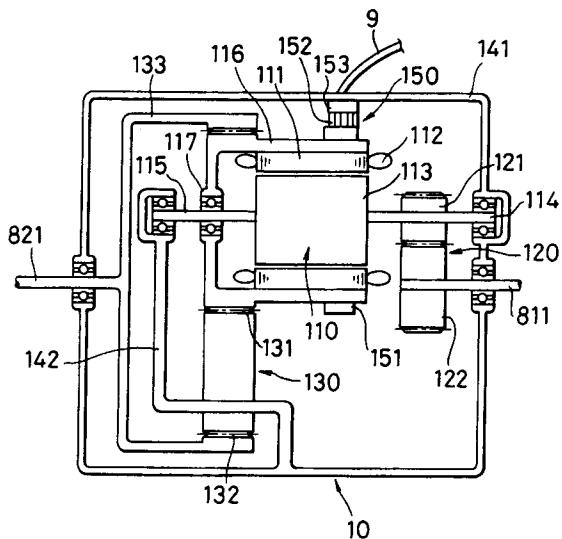


FIG. 2



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EUROPEAN SEARCH REPORT

Application Number  
EP 93 11 4342

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
A	US-A-4 108 015 (J.N. YANKE) * the whole document * ---	1,12,13	B60L11/18 B60L15/20 H02K7/116 H02K16/00
A	DE-A-30 36 465 (SIEMENS AG) * the whole document * ---	1,12,13	
A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 370 (E-463) (2427) 10 December 1986 & JP-A-61 164 443 (MITSUBISHI ELECTRIC CORP.) 25 July 1986 * abstract * ---	1,12,13	
A	PATENT ABSTRACTS OF JAPAN vol. 11, no. 296 (M-627) 25 September 1987 & JP-A-62 089 403 (YASKAWA ELECTRIC MFG CO LTD) 23 April 1987 * abstract * ---	1,12,13	
A	DE-A-30 43 004 (LICENTIA PATENT-VERWALTUNGS-GMBH) * claim 1; figure 1 * ---	1,12,13	TECHNICAL FIELDS SEARCHED (Int.Cl.5)
A	IECON'85, vol.2, 22 November 1985, SAN FRANCISCO US pages 477 - 482 C.C. CHAN ET AL 'CONTROL STRATEGY OF PWM INVERTER DRIVE SYSTEM FOR ELECTRIC VEHICLES' * page 477; figure 1 * ---	1,12,13	B60L H02K
A	US-A-5 089 734 (R. BICKRAJ) * the whole document * -----	1,12,13	

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	20 April 1994	Beyer, F
<b>CATEGORY OF CITED DOCUMENTS</b>		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document		